

FIG. 1A

FIG. 1B

FIG. 1C

FIG. 1D

FIG. 1E

FIG. 1F

FIG. 1G

FIG. 1H

FIG. 1I

FIG. 1

gi patatin_mtc	-----MATTKSFLILIFMILA-----TTSSTFAQLGEM	28
gi PatFm	-----MALEEM	6
gi PatIm	-----PWLEEM	6
gi PatL+	-----MATTKSFLILFFMILA-----TTSSTCAKLEEM	28
gi PatA+	-----MATTKSFLILFFMILA-----TTSSTCAKLEEM	28
gi PatB+	-----MATTKSVLVLFFMILA-----TTSSTCATLGEM	28
gi pentin1_phb	-----MKSKMAMLLLLFCVLSNQLVAAFSTQAKASKDGNL	35
gi 5c9_phb	-----MGSIGRGTANCATVPQPPSTGKL	24
gi corn3_pep	-----MGSIGRGTANCATVPQPPSTGKL	24
gi corn2_pep	-----MGSIGRGTANCATVPQPPSTGKL	24
gi corn4_pep	-----MGSIGRGTANCATVPQPPSTGKL	24
gi corn1_pep	RPTRPRHPRNTQKRGALLVGWILFSLAASPVKFQTHMGSIGRGTANCATVPQPPSTGKL	60
gi corn5_pep	-----MGSIGRGTANCATVPQPPSTGKL	24

FIG. 1A

gi patatin_mtc	VTVLSIDGGGIRGIIPATILEFLEGQLQEMDNNADARLADYFDVIGGTSTGGLLTAMIST	88
gi PatFm	VAVLSIDGGGIKGIIPGTILEFLEGQLQKMDNNADARLADYFDVIGGTSTGGLLTAMITT	66
gi PatIm	VTVLSIDGGGIKGIIPAIILEFLEGQLQEVDNKKDARLADYFDVIGGTSTGGLLTAMITT	66
gi PatL+	VTVLSIDGGGIKGIIPAIILEFLEGQLQEVDNKKDARLADYFDVIGGTSTGGLLTAMITT	88
gi PatA+	VTVLSIDGGGIKGIIPAIILEFLEGQLQEVDNKKDARLADYFDVIGGTSTGGLLTAMITT	88
gi PatB+	VTVLSIDGGGIKGIIPATILEFLEGQLQEVDNKKDARLADYFDVIGGTSTGGLLTAMITT	88
gi pentin1_phb	VTVLAIDGGGIRGIIPGVILKQLEATLQRWDSS--ARLAEYFDVVGSTGGIITAILTA	93
gi 5c9_phb	ITILSIDGGGIRGLIPATIIAYLEAKLQELDGP-DARIADYFDVIAGTSTGALLASMLAA	83
gi corn3_pep	ITILSIDGGGIRGLIPATIIAYLEAKLQELDGP-DARIADYFDVIAGTSTGALLASMLAA	83
gi corn2_pep	ITILSIDGGGIRGLIPATIIAYLEAKLQELDGP-DARIADYFDVIAGTSTGALLASMLAA	83
gi corn4_pep	ITILSIDGGGIRGLIPATIIAYLEAKLQELDGP-DARIADYFDVIAGTSTGALLASMLAA	83
gi corn1_pep	ITILSIDGGGIRGLIPATIIAYLEAKLQELDGP-DARIADYFDVIAGTSTGALLASMLAA	119
gi corn5_pep	ITILSIDGGGIRGLIPATIIAYLEAKLQELDGP-DARIADYFDVIAGTSTGALLASMLAA	83

FIG. 1B

gi patatin_mtc	PNENN--RPFAAAKEIVPFYFEHGPQIFNP-----SGQILGPKYDGKYLQVL	134
gi PatFm	PNENN--RPFAAANEIVPFYFEHGPHIFNSR-----YWPIFWPKYDGKYLQVL	113
gi PatIm	PNENN--RPFAAAKDIVPFYFEHGPHIFNY-----SGSILGPMYDGKYLQVL	112
gi PatL+	PNENN--RPFAAAKDIVPFYFEHGPHIFNY-----SGSILGPMYDGKYLQVL	134
gi Pata+	PNENN--RPFAAAKDIVPFYFEHGPHIFNY-----SGSIIIGPMYDGKYLQVL	134
gi PatB+	PNENN--RPFAAAKDIVPFYFEHGPHIFNS-----SGSIFGPMYDGKYLQVL	134
gi pentin1_phb	PDPQNKDRPLYAAEEIIDFYIEHGPSIFNKSTA-----CSLPGIFCPKYDGKYLQEI	146
gi 5c9_phb	PDENN--RPLFAAKDLTTFYLENGPKIFPQKKAGLLTPLRNLLGLVRGPKYDGVFLHDKI	141
gi corn3_pep	PDENN--RPLFAAKDLTTFYLENGPKIFPQKKAGLLTPLRNLLGLVRGPKYDGVFLHDKI	141
gi corn2_pep	PDENN--RPLFAAKDLTTFYLENGPKIFPQKKAGLLTPLRNLLGLVRGPKYDGVFLHDKI	141
gi corn4_pep	PDENN--RPLFAAKDLTTFYLENGPKIFPQKKAGLLTPLRNLLGLVRGPKYDGVFLHDKI	141
gi corn1_pep	PDENN--RPLFAAKDLTTFYLENGPKIFPQKKAGLLTPLRNLLGLVRGPKYDGVFLHDKI	177
gi corn5_pep	PDENN--RPLFAAKDLTTFYLENGPKIFPQKKAGLLTPLRNLLGLVRGPKYDGVFLHDKI	141

FIG. 1C

gi patatin_mtc	QEKLG	ETRVH	QALTE	VV	ISS	FDI	KT	NK	PV	I	FT	K	S	N	L	A	N	S	P	E	L	D	A	K	M	Y	D	I	S	Y	S	T	A	A	A	P	T	Y	F	194																			
gi PatFm	QEKLG	ETRVH	QALTE	V	A	I	S	S	F	D	I	K	T	N	K	P	V	I	F	T	K	S	N	L	A	K	S	P	E	L	D	A	K	T	Y	D	I	C	Y	S	T	A	A	A	P	T	Y	F	173										
gi PatIm	QEKLG	ETRVH	QALTE	V	A	I	S	S	F	D	I	K	T	N	K	P	V	I	F	T	K	S	N	L	A	K	S	P	E	L	D	A	K	M	Y	D	I	C	Y	S	T	A	A	A	P	I	Y	F	172										
gi PatL+	QEKLG	ETRVH	QALTE	V	A	I	S	S	F	D	I	K	T	N	K	P	V	I	F	T	K	S	N	L	A	K	S	P	E	L	D	A	K	M	Y	D	I	C	Y	S	T	A	A	A	P	I	Y	F	194										
gi PatA+	QEKLG	ETRVH	QALTE	V	A	I	S	S	F	D	I	K	T	N	K	P	V	I	F	T	K	S	N	L	A	K	S	P	E	L	D	A	K	M	Y	D	I	C	Y	S	T	A	A	A	P	I	Y	F	194										
gi PatB+	QEKLG	ETRVH	QALTE	V	A	I	S	S	F	D	I	K	T	N	K	P	V	I	F	T	K	S	N	L	A	K	S	P	E	L	D	A	K	M	N	D	I	C	Y	S	T	A	A	A	P	T	Y	F	194										
gi pentin1_phb	SQKL	N	E	T	L	L	D	Q	T	T	N	V	I	P	S	F	D	I	K	L	L	R	P	T	I	F	S	T	F	K	L	E	E	V	P	E	L	N	V	K	L	S	D	V	C	M	G	T	S	A	A	P	I	V	F	206			
gi 5c9_phb	KSL	T	H	D	V	R	V	A	D	T	V	T	N	V	I	V	P	A	F	D	V	K	Y	L	Q	P	I	I	F	S	T	Y	E	A	K	T	D	T	L	K	N	A	H	L	S	D	I	C	I	S	T	S	A	A	P	T	Y	F	201
gi corn3_pep	KSL	T	H	D	V	R	V	A	D	T	V	T	N	V	I	V	P	A	F	D	V	K	Y	L	Q	P	I	I	F	S	T	Y	E	A	K	T	D	L	K	N	A	H	L	S	D	I	C	I	S	T	S	A	A	P	T	Y	F	201	
gi corn2_pep	KSL	T	H	D	V	R	V	A	D	T	V	T	N	V	I	V	P	A	F	D	V	K	S	L	Q	P	I	I	F	S	T	Y	E	A	K	T	D	T	L	K	N	A	H	L	S	D	I	C	I	S	T	S	A	A	P	T	Y	F	201
gi corn4_pep	KSL	T	H	D	V	R	V	A	D	T	V	T	N	V	I	V	P	A	F	D	V	K	S	L	Q	P	I	I	F	S	T	Y	E	A	K	T	D	T	L	K	N	A	H	L	S	D	I	C	I	S	T	S	A	A	P	T	Y	F	201
gi corn1_pep	KSL	T	H	D	V	R	V	A	D	T	V	T	N	V	I	V	P	A	F	D	V	K	Y	L	Q	P	I	I	F	S	T	Y	E	A	K	T	D	L	K	N	A	H	L	S	D	I	C	I	S	T	S	A	A	P	T	Y	F	237	
gi corn5_pep	KSL	T	H	D	V	R	V	A	D	T	V	T	N	V	I	V	P	A	F	D	V	K	Y	L	Q	P	I	I	F	S	T	Y	E	A	K	T	D	L	K	N	A	H	L	S	D	I	C	I	S	T	S	A	A	P	T	Y	F	201	

FIG. 1D

gi patatin_mtc	PPHYVTNTSNG-DEYEFNLVDGAVATVADPALLISVATRLAQKDPAFASIRSLNYKKM	253
gi PatFm	PPHYFATNTING-DKYEFNLVDGAVATVADPALLSVSVATRRAQEDPAFASIRSLNYKKM	232
gi PatIm	PPHFFVTHTSNG-ARYEFNLVDGAVATVGDPAALLSLSVATRLAQEDPAFSSIKSLDYKQM	231
gi PatL+	PPHFFVTHTSNG-ARYEFNLVDGAVATVGDPAALLSLSVATRLAQEDPAFSSIKSLDYKQM	253
gi PatA+	PPHYFITHTSNG-DIYEFNLVDGGVATVGDPAALLSLSVATRLAQEDPAFSSIKSLDYKQM	253
gi PatB+	PPHYFVTHTSNG-DKYEFNLVDGAVATVGDPAALLSLSVRTKLAQVDPKFASIKSLNYNEM	253
gi pentin1_phb	PPYFFKHG-----DTEFNLVDGAIADIPAPVALSEVLQQEKYKN--KE-----I	249
gi 5c9_phb	PAHFFKTEATDGRPPREYHLVDGGVAANNP TMVAMSM L TKEVHRRNP NF NAGSPTEYTN Y	261
gi corn3_pep	PAHFFKTEATDGRPPREYHLVDGGVAANNP TMVAMSM L TKEVHRRNP NF NAGSPTEYTN Y	261
gi corn2_pep	PAHFFKTEATDGRPPREYHLVDGGVAANNP TMVAMSM L TKEVHRRNP NF NAGSPTEYTN Y	261
gi corn4_pep	PAHFFKIEATDGRPPREYHLVDGGVAANNP TMVAMSM L TKEVHRRNP NF NAGSPTEYTN Y	261
gi corn1_pep	PAHFFKTEATDGRPPREYHLVDGGVAANNP TMVAMSM L TKEVHRRNP NF NAGSPTEYTN Y	297
gi corn5_pep	PAHFFKTEATDGRPPREYHLVDGGVAANNP TMVAMSM L TKEVHRRNP NF NAGSPTEYTN Y	261

FIG. 1E

gi patatin_mtc	LLLLSLGTGTTSEFDKTYTAKEAATWTAVHWMLVIQK-----MTDAASSYMTDYVYLSTAFQ	308
gi PatFm	LLLLSLGTGTTSEFDKTHTAETAKWALQWMLVIQK-----MTEAASSYMTDYVYLSTVFQ	287
gi PatIm	LLLLSLGTGTTSEFDKTYTAEEAAKWGPLRWMLAIQK-----MTNAASFYMTDYVYLSTVFQ	286
gi PatL+	LLLLSLGTGTTSEFDKTYTAEEAAKWGPLRWMLAIQK-----MTNAASSYMTDYVYLSTVFQ	308
gi PatA+	LLLLSLGTGTTSEFDKTYTAQEAAKWGPLRWMLAIQK-----MTNAASSYMTDYVYLSTVFQ	308
gi PatB+	LLLLSLGTGTTSEFDKTYTAEEAAKWGPLRWMLAIQK-----MTNAASSYMTDYVYLSTVFQ	308
gi pentin1_phb	LLLLSIGTGVVKPGEYSANRTWTIFDWSSETLIG-----LMGHGTRAMSDYVVGSHFK	302
gi 5c9_phb	LIISVGTGSAKQAEK-YTAEQCAKWGLIQWL YNGGFTPIIDIFSHASSDMVDIHASILFQ	320
gi corn3_pep	LIISVGTGSAKQAEK-YTAEQCAKWGLIQWL YNGGFTPIIDIFSHASSDMVDIHASILFQ	320
gi corn2_pep	LIISVGTGSAKQAEK-YTAEQCAKWGLIQWL YNGGFTPIIDIFSHASSDMVDIHASILFQ	320
gi corn4_pep	LIISVGTGSAKQAEK-YTAEQCAKWGLIQWL YNGGFTPIIDIFSHASSDMVDIHASILFQ	320
gi corn1_pep	LIISVGTGSAKQAEK-YTAEQCAKWGLIQWL YNGGFTPIIDIFSHASSDMVDIHASILFQ	356
gi corn5_pep	LIISVGTGSAKQAEK-YTAEQCAKWGLIQWL YNGGFTPIIDIFSHASSDMVDIHASILFQ	320

FIG. 1F

gi patatin_mtc	ALDSKNNYLRVQENALTGT-----	TTMDDASEANMELLVQ	344
gi PatFm	DLHSQNNYLRVQENALTGT-----	TTKADDASEANMELLAQ	323
gi PatIm	ARHSQNNYLRVQENALNGT-----	TTMDDASEANMELLVQ	322
gi PatL+	ARHSQNNYLRVQENALNGT-----	TTMDDASEANMELLVQ	344
gi PatA+	ARHSQNNYLRVQENALTGT-----	TTMDDASEANMELLVQ	344
gi PatB+	ARHSQNNYLRVQENALTGT-----	TTMDDASEANMELLVQ	344
gi pentin1_phb	ALQPQNNYLRIQEYDLDP-----	LESIDDASTENMENLEK	338
gi 5c9_phb	ALHCEKKYLRIQDDTLTGN-----	ASSVDIATKENMESLIS	356
gi corn3_pep	ALHCEKKYLRIQDDTLTGN-----	ASSVDIATKENMESLIS	356
gi corn2_pep	ALHCEKKYLRIQDDTLTGN-----	ASSVDIATKENMESLIS	356
gi corn4_pep	ALHCEKKYLRIQDDTLTGN-----	ASSVDIATKENMESLIS	356
gi corn1_pep	ALHCEKKYLRIQLYAGYFDWIRVGRHQGEHGVSDIDRPGAAQGESEHRRAVR		416
gi corn5_pep	ALHCEKKYLRIQLYAG-----	-----	337

FIG. 1G

gi patatin_mtc	VGENLLKKPVSEDNP-----ETVEEALKRFAKLLSDRKKLRANKASY-----	386
gi PatFm	VGENLLKKPVSKDNP-----ETVEEALKRFAKLLSDRKKLRANKASY-----	365
gi PatIm	VGETLLKKPVSRDSP-----ETVEEALKRFAKLLSDRKKLRANKASY-----	364
gi PatL+	VGATLLKKPVSKDSP-----ETVEEALKRFAKLLSDRKKLRANKASY-----	386
gi Pata+	VGETLLKKPVSKDSP-----ETVEEALKRFAKLLSDRKKLRANKASY-----	386
gi PatB+	VGEKLLKKPVSKDSP-----ETVEEALKRFAKLLSDRKKLRANKASY-----	386
gi pentin1_phb	VGQSLLEPVPKRMNLT-FVVEETGEGTNAEALDRLAQILYEEKITRGLGKISLEVDNID	397
gi 5c9_phb	IGQELLKPPVARVNIDTGVYESCDGEGTNAQSLADFAKQLSDERKLRKSNLNSN-----	410
gi corn3_pep	IGQELLKPPVARVNIDTGLYESCDGEGTNAQSLADFAKQLSDERKLRKSNLNSN-----	410
gi corn2_pep	IGQELLNKPVARVNIDTGLYESCEGEGTNAQSLADFAKQLSDERKLRKSNLNSN-----	410
gi corn4_pep	IGQELLNKPVARVNIDTGLYESCEGEGTNAQSLADFAKQLSDERKLRKSNLNSN-----	410
gi corn1_pep	VLRRGHKCTVASLRQATLRAQATQEQSQLQLINTSLSHMCSFRRFTVSYFFNFNSVCVL	476
gi corn5_pep	-----	

FIG. 1H

gi patatin_mtc	-----	
gi PatFm	-----	
gi PatIm	-----	
gi PatL+	-----	
gi PatA+	-----	
gi PatB+	-----	
gi pentin1_phb	PYTERVRKLLF-----	408
gi 5c9_phb	-----	
gi corn3_pep	-----	
gi corn2_pep	-----	
gi corn4_pep	-----	
gi corn1_pep	CVLCVYQTFKFNQKKKKKKKKKKKKKKKRAA	508

FIG. 11

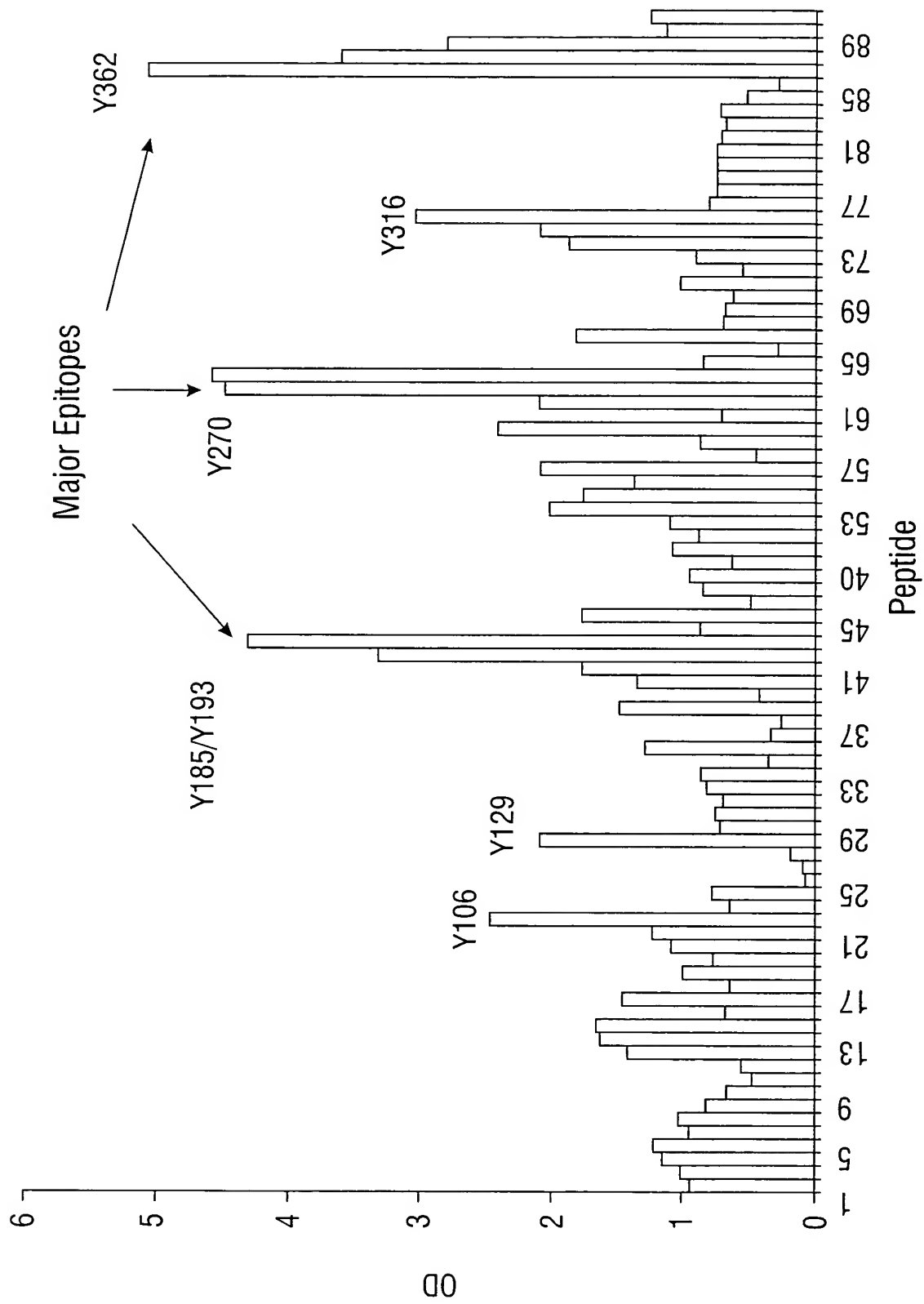


FIG. 2

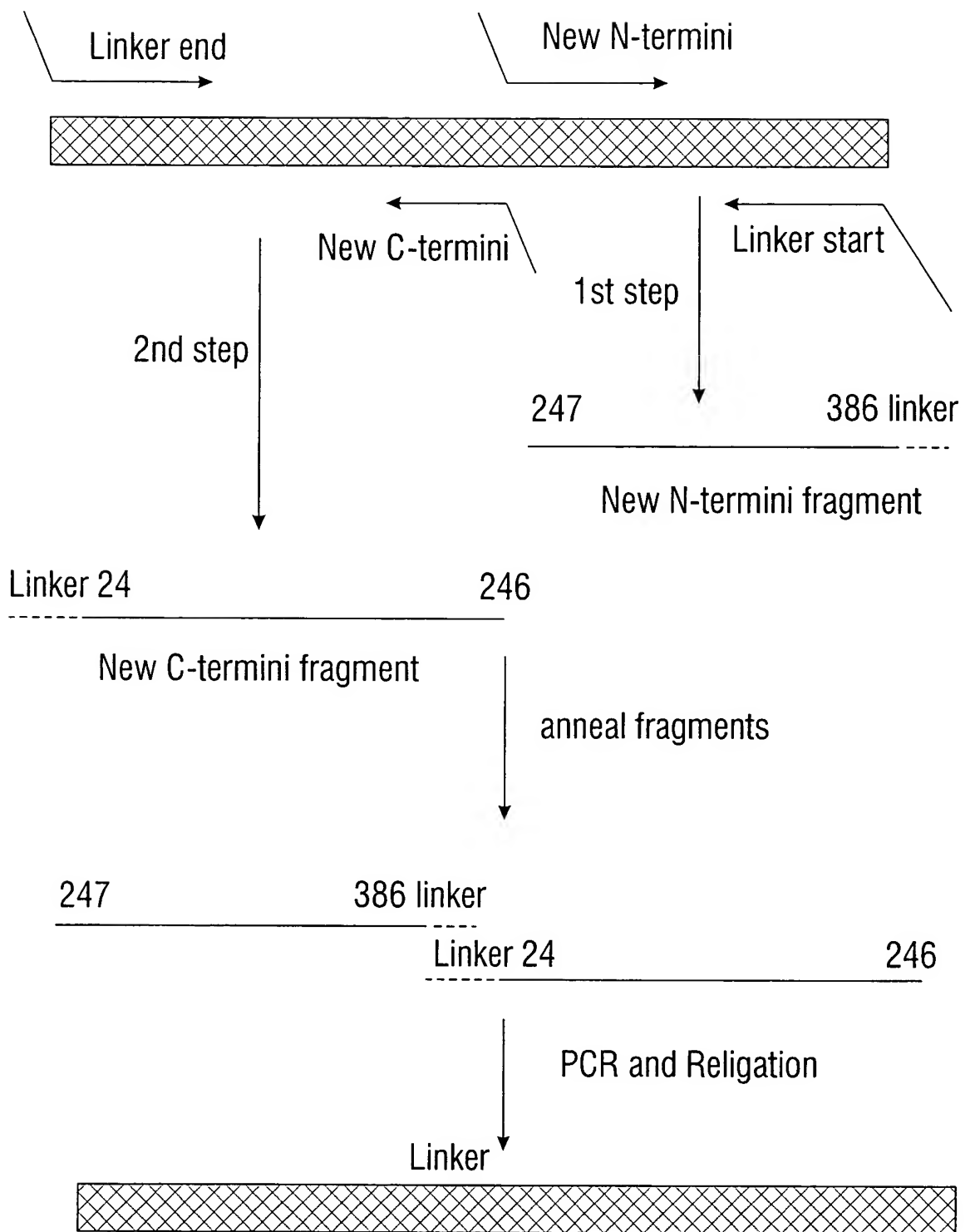


FIG. 3